

D. Biochemical characteristics of the antibacterial activity	26
E. Group-specific differences in antibacterial activity	26
F. Hemocyanin concentration in blue crabs from the Pamlico River	30
G. Trace metal concentrations in blue crabs from the Pamlico River	36
H. Development of shell disease in clinically normal blue crabs	36
DISCUSSION	36
A. Clinical features of shell disease in the A/P Estuary	36
B. Relationship of antibacterial activity to pathogenic potential of crab microflora	36
C. Characteristics of the antibacterial activity	38
D. Differences in immunocompetence among different groups of blue crabs	39
E. Possible causes for lower hemocyanin levels in Pamlico River blue crabs	41
F. Potential importance of metal contaminants on the health of blue crabs in the A/P Estuary	42
G. Potential usefulness of the antibacterial assay to fisheries health monitoring	42
REFERENCES	44